Panasonic
ideas for life

16ch Real-time H.264 Digital Disk Recorder

WJ-HD716

16ch H.264 Digital Disk Recorder

WJ-HD616

NTSC **WJ-HD716** (120 V AC)
WJ-HD616 (120 V AC)

PAL **WJ-HD716** (220 ~ 240 V AC)
WJ-HD616 (220 ~ 240 V AC)

H.264 High Picture Quality encoding with 16ch Real-time recording, HDMI Full HD display and *SD5Link*

Key Features

- H.264 (High profile) codec with "UniPhier®" Panasonic's proprietary System LSI platform provides high quality and high compression encoding simultaneously.
- 16 analog video inputs including 16 (WJ-HD716) / 8 (WJ-HD616) Panasonic coax. camera control inputs and 4 audio inputs
- Real-time recording (WJ-HD716 only):
  480/400 ips (Field), 240/200 ips (Frame) (NTSC/PAL)
  * WJ-HD616 features Field 240/200 ips and Frame 120/100 ips (NTSC/PAL)
- Live/Playback monitor out (HDMI, BNC) and Live monitor out (HDMI, BNC)
- 2x HDMI interfaces supporting dual 1080i (1,920 x 1,080) display
- Up to 960/800 ips at 16ch 2x monitors real-time live (NTSC/PAL)
- Various Display Modes: 4 / 7 / 8 / 9 / 12 / 16 split screen display
- ***SD5Link*** (Super Dynamic 5 Link) capability with i-VMD (intelligent-Video Motion Detection) alarm provides disk saving and easy search.
- Up to 5 recorders can be integrated in cascade connection mode for up to 80 cameras.
- Equipped with 4 HDD slots accessible from front panel
- DVD drive (optional) and SD/SDHC memory card slot for easy copy of recorded image data
- HDD capacity is expandable up to 31 HDDs (4 HDD slots in the main unit and 3 optional WJ-HDE400 Hard Disk Extension Units each with 9 HDD slots).
- RAID5/6 redundant recording with optional WJ-HDB601 RAID Board
- Up to 4 optional WV-CU650 system controllers can be connected by PS•Data.
- Easy operation with GUI and USB mouse
- Remote monitoring available from Internet Explorer® and WV-ASM100
- H.264 image transfer at QVGA resolution for narrow network bandwidth
- Setup data of WJ-HD716/WJ-HD616 can be downloaded and uploaded with SD/SDHC memory card.
- User/Host authentication (Up to 32 user registrations)
- Up to 8 users can operate via network simultaneously.
- Excellent maintenance capability: Front HDD exchangeability, Front maintenance network port

Standard Accessories

- CD-ROM* ..... 1 pc.
- Installation Guide ..... 1 pc.
- Quick Reference Guide..... 1 pc.

* The CD-ROM contains the operating instructions (PDFs) and other manuals.

The following are for installation:

- Power Cord (NTSC model) ..... 1 pc.
- Power Cord (PAL model) ..... 2 pcs.
- Rack Mount Bracket ..... 2 pcs.
- Screw for Rack Mount Bracket ... 6 pcs.
- Rack Handle ..... 2 pcs.
- Screw for Rack Handle ..... 4 pcs.
- Washer ..... 4 pcs.
- HDD Canister..... 1 pc.
- HDD Fixing Screw for HDD Canister... 6 pcs.

Optional Accessories

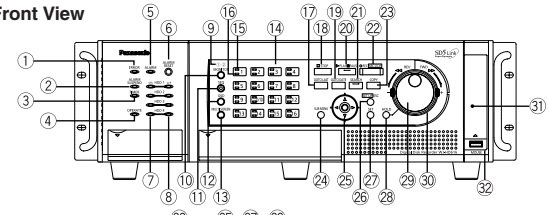
HDD Canister **WJ-HDU40K**	Hard Disk Extension Unit **WJ-HDE400**	i-Pro Management Software **WV-ASM100**
RAID Board **WJ-HDB601**		
Built-in DVD Drive **WJ-HDB611**		

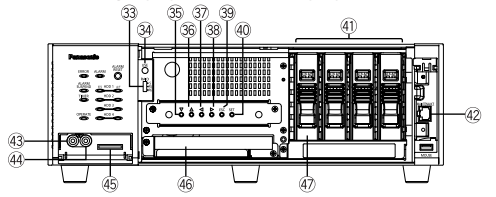
Specifications

TV System		NTSC	PAL
Audio / Video IF	Video Inputs	WJ-HD716: 16x 1.0 V [p-p] / 75 Ω composite video inputs (BNC) 16x multiplexed control data (1 ~ 16 CH) Cascade IN: 2x HDMI, 1x BNC WJ-HD616: 16x 1.0 V [p-p] / 75 Ω composite video inputs (BNC) 8x multiplexed control data (1 ~ 8 CH) Cascade IN: 2x HDMI, 1x BNC	
	Video Outputs	16x 1.0 V [p-p] / 75 Ω composite video signal (BNC), active loop through outputs Monitor outputs: 2x HDMI, 2x 1.0 V [p-p] / 75 Ω composite video signal (BNC), Video output (front RCA): 1x 1.0 V [p-p] / 75 Ω composite video signal	
	Audio Inputs	4x –10 dBv, 10 KΩ (RCA) (1 ~ 4 CH)	
	Audio Outputs	Rear: 1x –10 dBv, 600 Ω Front: 1x –10 dBv, 600 Ω	
Audio / Video Format	Recording	H.264 (High profile) Frame (720 x 480 pixels) Field (720 x 240 pixels)	H.264 (High profile) Frame (720 x 576 pixels) Field (720 x 288 pixels)
	Network	H.264 (High profile) QVGA (320 x 240 pixels): Recording independent Field/Frame: Recording dependent	
Recording	Frame Rate Total	WJ-HD716: 480 ips at Field, 240 ips at Frame WJ-HD616: 240 ips at Field, 120 ips at Frame	WJ-HD716: 400 ips at Field, 200 ips at Frame WJ-HD616: 200 ips at Field, 100 ips at Frame
Main Unit Functions	Camera Control	Pan/Tilt, Zoom, Focus, Iris, Preset position call (up to 256), Auto mode	
	Multiscreen Mode	4 / 7 / 8 / 9 / 12 / 16 split screen display	
	Copy to External Media	DVD±R, SD/SDHC	
Browser GUI	Supported Browser	Windows® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business 32 bit), Microsoft® Internet Explorer® 6.0 SP2 (Microsoft® Windows® XP Home/Professional SP2)	
Network	Network Interface	10Base-T / 100Base-TX (RJ-45) x1	
	Maintenance Interface	10Base-T / 100Base-TX (RJ-45) x1	
	No. of Client at a Time	8	
	User Registration	Up to 32 users	
Alarm / Event	Alarm Source	16x Terminal inputs, 16x Camera alarm, PS-Data	
External IF	Alarm	16x Alarm inputs (25 pin D-sub, Make contact, N.O./N.C.) 16x Alarm outputs (25 pin D-sub, Open collector, N.O./N.C) 1x Alarm reset input, 1x Alarm suspend input	
	EXT Storage	3x High speed serial interface. Only for WJ-HDE400 Extension Unit.	
	Recording	Emergency recording input, External recording mode input	
	Time Adjustment	Time adjustment input/output	
	Controls	Sequence switching signal input. Power outage detection output, Shut down ready output	
	PS-Data (RS-485) Controller	2x RS-485 (RJ-11) PS-Data compatible for control from WV-CU650 or Matrix Switcher WJ-SX650	
	RS-485 Camera Interface	2x RS-485 (RJ-11), 2/4wire, half duplex, for 1 ~ 16 CH	
	Mouse	USB Mouse port (Front) x1	
	SD/SDHC Slot	SD/SDHC Memory Card Slot (Front) x1	
HDD	Type	3.5 inch Serial ATA HDD, Up to 4x HDDs can be installed.	
	Maximum HDD	31 HDDs (with 3x WJ-HDE400 extension units each with 9x HDD slots)	
	RAID	RAID5/RAID6 supported (with WJ-HDB601)	
General Specifications	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA)	CE (EN60065, EN55022 ClassB, EN55024)
	Power Source	120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz
	Power Consumption	130 W	
	Ambient Operating Temperature	+5 °C ~ +45 °C (41 °F ~ 113 °F)	
	Ambient Operating Humidity	Less than 85 % (without condensation)	
	Dimensions	430 mm (W) x 132 mm (H) x 400 mm (D) (16-15/16" (W) x 5-3/16" (H) x 15-3/4" (D)) (excluding rubber feet and projections)	
	Weight (approx.)	14 kg (30.8 lbs.) without HDD (Factory default), 17 kg (37.4 lbs.) with 4 HDDs	

Part Names and Functions

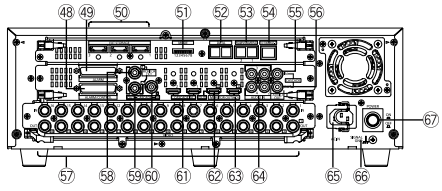
Front View





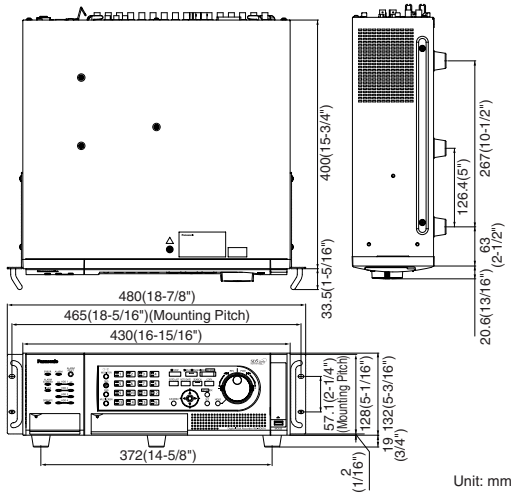
① Error Indicator
② Alarm Suspension Indicator
③ Timer Indicator
④ Operate Indicator
⑤ Alarm Indicator
⑥ Alarm Reset Button
⑦ HDD Status Indicators
⑧ HDD Access Indicators
⑨ Monitor Indicators
⑩ Monitor Switching Button
⑪ Sequence Button
⑫ OSD Button
⑬ Multi-screen Button
⑭ Camera Selection Buttons
⑮ Live/Playback Indicator
⑯ Record Indicator
⑰ GOTO LAST Button
⑱ Stop Button
⑲ GOTO DATE Button
⑳ Play/Pause Button
㉑ Search Button
㉒ Record/Record Stop Button
㉓ Copy Button
㉔ Sub-menu Button
㉕ Arrow Button
㉖ Setup/Escape Button
㉗ Set Button
㉘ Hold Button
㉙ Jog Dial
㉚ Shuttle Ring
㉛ Maintenance Cover
㉜ Mouse Connector
㉝ RAID Mode Switch
㉞ USE Button
㉟ Down Button
㊱ Up Button
㊲ Left Button
㊳ Right Button
㊴ Escape Button
㊵ Set Button
㊶ HDD Bay Slots
㊷ Maintenance Port
㊸ Audio Output Connector
㊹ Video Output Connector
㊺ SD/SDHC Card Slot
㊻ DVD Drive
㊼ HDD Unit

Rear View



㊽ Alarm/Control Connector
㊾ Alarm Connector
㊿ External Storage Connectors
(51) Mode Switches
(52) PS-Data Ports
(53) RS-485 Ports
(54) Network Port
(55) Audio Cascade In Connector
(56) Audio Output Connector (Cascade Output)
(57) Video Input Connectors / Video Output Connectors
(58) Monitor Output Connector 1 (BNC)
(59) Monitor Output Connector 2 (BNC) (Cascade Output)
(60) Cascade In Connector (BNC)
(61) Cascade In Connectors (HD)
(62) Monitor Output Connector 2 (HDMI)(Cascade Output)
(63) Monitor Output Connector 1 (HDMI)
(64) Audio Input Connectors
(65) Power Cord Inlet
(66) Signal Ground Terminal
(67) Power Switch

Appearance



Unit: mm (inches)

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Important
– Safety Precaution: carefully read the operating instructions and installation manual before using this product.
– Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

• All TV pictures are simulated.
• Weights and dimensions are approximate.
• Specifications are subject to change without notice.
• These products may be subject to export control regulations.
• All product pictures are NTSC models.

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